



A.D. 1852 , . . . N° 14,077.

S P E C I F I C A T I O N
AND
MEMORANDUM OF ALTERATION
OF
ROBERT GRIFFITHS.

IMPROVING AND RESTORING THE
HUMAN HAIR.

LONDON:

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1857.



A.D. 1852 N° 14,077.

Improving and Restoring the Human Hair.

GRIFFITHS' SPECIFICATION AND MEMORANDUM
OF ALTERATION.

TO ALL TO WHOM THESE PRESENTS SHALL COME, I, ROBERT GRIFFITHS, of Clifton, Engineer, send greeting.

WHEREAS Her present most Excellent Majesty Queen Victoria, by Her Royal Letters Patent under the Great Seal of the United Kingdom
5 of Great Britain and Ireland, bearing date at Westminster, the Twentieth day of October, in the fifteenth year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said Robert Griffiths, my exors, admors, and assigns, Her especial licence, full power, sole privilege and authority, that I, the said Robert Griffiths, my exors, admors, and
10 assigns, or such others as I, the said Robert Griffiths, my exors, admors, or assigns, should at any time agree with, and no others, from time to time and at all times during the term of years therein expressed, should and lawfully might make, use, exercise, and vend, within England, Wales, and the Town of Berwick-upon-Tweed, my Invention of "APPARATUS FOR
15 IMPROVING AND RESTORING HUMAN HAIR;" in which said Letters Patent is contained a proviso that I, the said Robert Griffiths, shall cause a particular description of the nature of my said Invention, and in what manner the same is to be performed, by an instrument in writing under my hand and seal, to be inrolled in Her said Majesty's High Court of Chancery

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within six calendar months next and immediately after the date of the said in part recited Letters Patent, as in and by the same, reference being thereunto had, will more fully and at large appear.

NOW KNOW YE, that in compliance with the said proviso, I, the said Robert Griffiths, do hereby declare that the nature of my said Invention, 5 and the manner in which the same is to be performed, are fully described and ascertained in and by the following statement thereof, reference being had to the Drawing hereunto annexed, and to the figures and letters marked thereon, that is to say :—

My Invention consists of constructing combs, brushes, or such like instru- 10 ments for combing and brushing the hair, that when in use and passed through the hair electric currents may be given off, and thereby the skin caused to be stimulated, and a healthy action produced, which will have the effect of restoring color to the hair, and generally to improve its appearance. Combs and brushes may either be made of different metals, so as to become a battery in themselves, 15 or they may be of metal, or partly of metal, and have batteries connected therewith when in use, and the arrangement of the parts may be greatly varied; but the arrangements shewn by the Drawing will, I believe, be found as convenient as may be for the purpose. I do not, however, confine myself to the arrangements shown, so long as combs or brushes, or such like instruments, are 20 made suitable for carrying out my Invention.

DESCRIPTION OF THE DRAWING.

Figure 1 shows a comb made according to my Invention; Figure 2 is a longitudinal section thereof, and Figure 3 is a transverse section thereof. The teeth are alternately of copper and zinc, or other metals suitable for com- 25 posing a galvanic battery, and they are connected together by being run on a wire *a*, there being a metal washer between each neighbouring pair of teeth. *b* is a hollow back fixed on the upper parts of the teeth. *c* is a wire on which is to be wound worsted or other fibre; and when intended to be used such wire with its covering is to be dipped into a solution of common salt or very 30 dilute acid, or other fluid suitable for producing action on the metals. The wire with its covering is then to be slid into its case, and the effect of this arrangement will be that when the comb is passed through the hair the moisture on the skin and in the hair will sufficiently make up a complete electric circuit to cause currents of electricity to pass through the teeth and 35 through the fluids in the hair, and thus produce the desired effect; or in place of making the comb so as to contain or be its own battery, it may simply

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consist of a series of metallic points in connection with a separate battery, but I prefer the arrangement above given, but do not confine myself to the form of the parts.

Figure 4 shows an edge view, and Figure 5 a transverse section of a brush made according to my Invention, the points being made of very fine metal wire set in india rubber or other elastic substance, which may also have a hollow back for air, and the upper part of the back is also made hollow to contain a battery, which I prefer to construct as follows:—*d, d*, are two plates of zinc, having between them two surfaces of woollen cloth saturated when in use with a solution of common salt, or other suitable fluid. *e, e*, are two plates of copper, also having surfaces of saturated cloth between them. These two pairs of plates are put in metallic connection with the teeth by means of two plates *f, g*, by which arrangement, when the brush is passing through the hair, the fluids on the skin and in the hair will sufficiently close the circuit, and currents of electricity will pass through the fluids and the teeth of the brush so as to produce the desired result.

Figures 6 and 7 show a side view and section of another arrangement of brush, in which case a similar battery is applied in the back, as shown, and each of the two pairs of plates is to be in suitable metallic connection with two or more rows of wires *h, i*, so that when in use circuits will be closed or made complete by the fluids on the skin and in the hair, so that electric currents will pass between the points *h* and *i*. The other parts of the brush in this case are intended to be of bristles, and wires *h, i*, are intended to be very fine, though shewn coarse in the Drawing. I would here state that here, as in the case of the combs, that the instrument itself may be separate from the battery, but I prefer that the whole should be combined into one instrument, as shewn, though the arrangement and form of the parts may be varied, and other metals may be used in making the batteries.

Having thus described the nature of my Invention, and the manner of performing the same, I would have it understood that what I claim is the arranging or combining parts into combs, brushes, or such like instruments suitable for passing through the hair or against the skin, and so that electric currents may be obtained when in use, as herein explained.

In witness whereof, I, the said Robert Griffiths, have hereunto set my hand and seal, this Twentieth day of October, in the year of our Lord One thousand eight hundred and fifty-two.

ROBERT (L.S.) GRIFFITHS.

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AND BE IT REMEMBERED, that on the Twentieth day of October, in the year of our Lord 1852, the aforesaid Robert Griffiths came before our said Lady the Queen in Her Chancery, and acknowledged the Specification aforesaid, and all and every thing therein contained and specified, in form above written. And also the Specification aforesaid was stamped according to the 5 tenor of the Statute made for that purpose.

Enrolled the Twentieth day of October, in the year of our Lord One thousand eight hundred and fifty-two.

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MEMORANDUM OF ALTERATION.

In the Matter of a Patent granted to ROBERT GRIFFITHS, of Clifton, Engineer, for his Invention of "APPARATUS FOR IMPROVING AND RESTORING HUMAN HAIR," bearing date at Westminster, the Twentieth day of April, One thousand eight hundred and fifty-two, and to which a Specification was duly inrolled.

MEMORANDUM OF ALTERATION proposed to be entered by the above-named Patentee with the Clerk of the Patents of England, according to the Statute in that case made and provided.

Whereas I, the said Robert Griffiths, have discovered that my said Specification, in reciting the date of the said Letters Patent, stated it to be of the Twentieth day of October in error for the Twentieth day of April; I therefore strike out the word October and insert the word April. And I have been advised that the first paragraph of the description of the parts shown by the Drawing may be rendered more full and clear, and thus enable a less skilled workman to carry out my Invention, if additional information be given. I do therefore alter the said Specification by introducing the words "coated with insulating material" after the letter *a*, and also again after the word washer. And I also introduce the words "the teeth being separated by a washer of felt" after the word "teeth." By which such paragraph will, when altered, be as follows: "The teeth are alternately of copper and zinc, or other metals suitable for composing a galvanic battery, and they are connected together by being run on a wire *a*, coated with insulating material, there being a metal washer coated with insulating material between each neighbouring pair of teeth, the teeth being separated by a washer of felt."

In witness whereof, I, the said Robert Griffiths, have hereunto set my hand and seal, this Fifteenth day of February, in the year of our Lord One thousand eight hundred and fifty-five.

ROBT GRIFFITHS. (L.S.)

To the Clerk of the Patents of England.

This is to certify that Robert Griffiths, of Clifton, Engineer, has applied to me for leave to file with you the above-written Memorandum of Alteration of

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a certain Invention for which Letters Patent were duly granted to him under the Great Seal, bearing date the 20th day of April, 1852, and to which the Specification was duly enrolled. And having considered the said application, and no objection having been made to the same, I have accordingly granted leave to the said Robert Griffiths to file his said Memorandum of Alteration 5 pursuant to the Statute 5 & 6 William 4th, cap. 83.

A. E. COCKBURN.

Temple, February 15th, 1855.

Entered and filed with the Clerk of
the Patents of England, this Seven-
teenth day of February, 1855.

10



Great Seal
Patent Office.

AND BE IT REMEMBERED, that on the Fifteenth day of February, in the year of our Lord 1855, the aforesaid Robert Griffiths came before our said Lady the Queen in Her Chancery, and acknowledged the Memorandum of Alteration aforesaid, and all and every thing therein contained and 15 specified, in form above written. And also the Memorandum of Alteration aforesaid was stamped according to the tenor of the Statute made for that purpose.

Enrolled the Seventeenth day of February, in the year of our Lord One
thousand eight hundred and fifty-five.

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Printed by GEORGE EDWARD EYRE and WILLIAM SPOTTISWOODE,
Printers to the Queen's most Excellent Majesty. 1857.

FIG. 5.

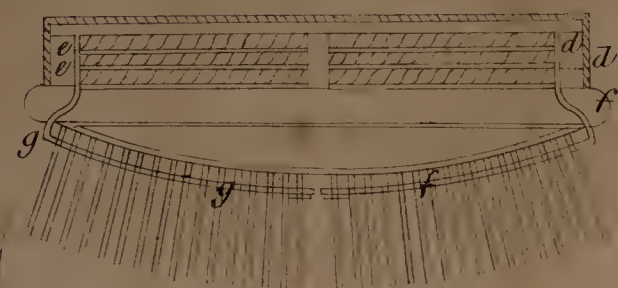


FIG. 4.

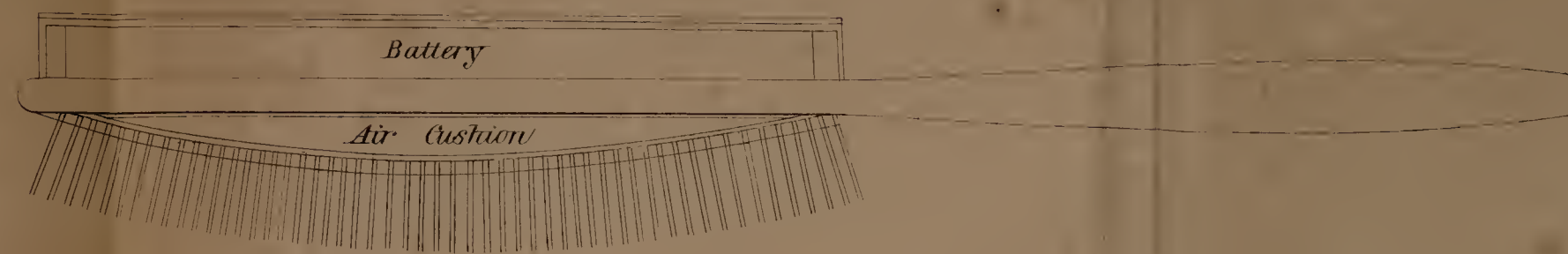


FIG. 7.

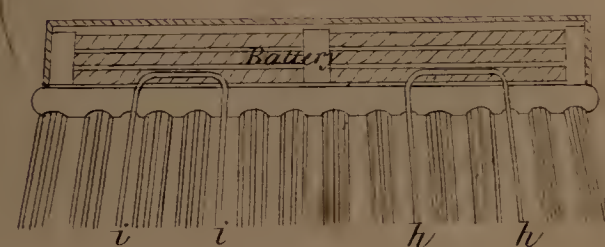


FIG. 6.

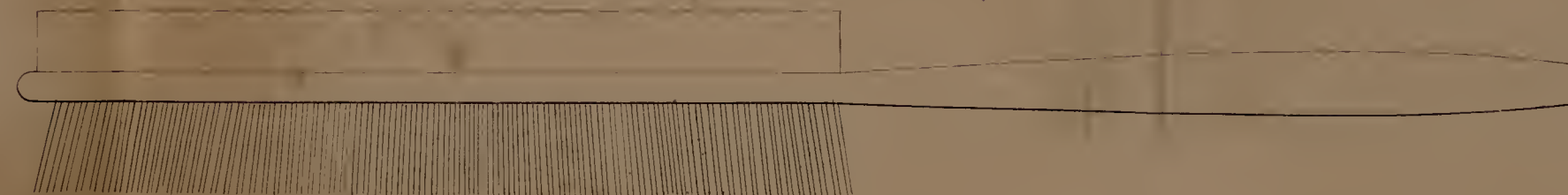


FIG. 3.



FIG. 2.

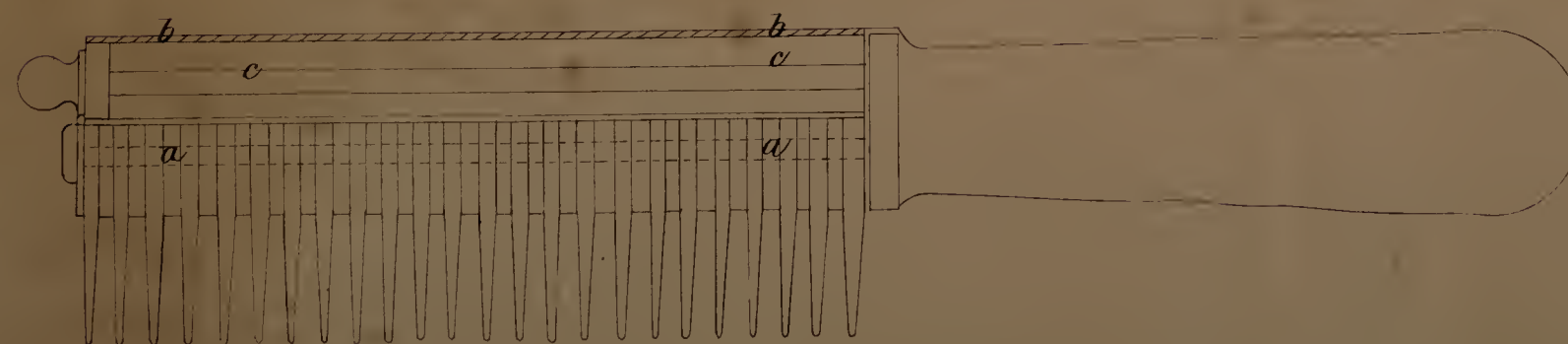


FIG. 1.



The covers are to be removed when the batteries require the air to be moistened.

The aroiled drawing is partly colored.

Drawn on Stone by Malby & Sons

